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UTILITY

ZE012US Attorney Docket No.

PATENT APPLICATION	First Inventor Kia Silverbrook				
TRANSMITTAL	Title A Method of Fabricating a Micro-Electromechanical Device Having a Laminated Actuator				
(Only for new nonprovisional applications under 37 CFR 1.53(b))	Express Mail Label No.				
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231				
Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)	7. CD-ROM or CD-R in duplicate, large table or				
2. Applicant claims small entity status. See 37 CFR 1.27.	Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)				
3. X Specification [Total Pages 70]	a. Computer Readable Form (CRF)				
- Descriptive title of the invention	b. Specification Sequence Listing on:				
 Cross Reference to Related Applications Statement Regarding Fed sponsored R & D 	i. ☐ CD-ROM or CD-R (2 copies); or				
 Reference to sequence listing, a table, or a computer program listing appendix 	ii.□ paper				
- Background of the Invention - Brief Summary of the Invention	c. Statements verifying identity of above copies				
 Brief Description of the Drawings (f filed) 	ACCOMPANYING APPLICATION PARTS				
- Detailed Description - Claim(s)	9. X Assignment Papers (cover sheet & document(s))				
- Abstract of the Disclosure	10. 37 CFR 3.73(b) Statement Power of Attorney				
4. X Drawing(s) (35 U.S.C. 113) [Total Sheets [81]]	11. English Translation Document (if applicable)				
5. Oath or Declaration [Total Pages 3]	12. X Information Disclosure X Copies of IDS Statement (IDS)/PTO-1449				
a. X Newly executed (original or copy) Copy from a prior application (37 CFR 1.63 (d))	13. Preliminary Amendment				
b. Copy from a prior application (37 CFR 1.63 (d)) (for continuation/divisional with Box 17 completed)	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)				
i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s)	15. Certified Copy of Priority Document(s) (if foreign priority is claimed)				
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	16. Other:				
6. Application Data Sheet. See 37 CFR 1.76					
17. If a CONTINUING APPLICATION, check appropriate box, and suppor in an Application Data Sheet under 37 CFR 1.76:	ly the requisite information below and in a preliminary amendment,				
Continuation Divisional Continuation-in-part (CIP)	of prior application No.:09/_835,702				
Prior application information: Examiner An H Do	Group / Art Unit:2853				
For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the Box 5b, is considered a part of the disclosure of the accompanying continu The Incorporation can only be relied upon when a portion has been inadver	ration or divisional application and is hereby incorporated by reference.				
18. CORRESPONDE	The state of the s				
Customer Number or Bar Code Label (Insert Customer No. or Attach ber	or Correspondence address below				
Name KIA SILVERBROOK					
393 Darling Street,					
Address					
City Balmain	State NSW Zip Code 2041				
Country Australia Tele	phone +61-2-9818-6633 Fax +61-2-9555-776				
Name (Print/Type) KIA SILVERBROOK	Registration No. (Attorney/Agent)				
Signature	Date November 21, 2003				

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Signature

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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お FEE TRANSMITTA	Application Number			Numbe	r	
for EV 2004		Filing	Date			
for FY 2004	First Named Inventor Kia Silverbrook					
Effective 10/01/2003. Patent fees are subject to annual revision	Examiner Name					
Applicant claims small entity status. See 37 CFR 1.27		Art U	nit			
TOTAL AMOUNT OF PAYMENT (\$) 810.00		Attorr	ney Doo	cket No	. ZE012US	
METHOD OF PAYMENT (check all that apply)				FEE	CALCULATION (continued)	
Check Credit card Money Other None	3. A	DDITI	ONAL	. FEES	3	-
Deposit Account:	<u>Large</u>	Entity	Small	Entity		
Deposit	Fee Code	Fee i	Fee Code	Fee (\$)	Fee Description	Fee Paid
Account Number	1051		2051		Surcharge - late filing fee or oath	Fee Falu
Deposit Account	1052	50	2052		Surcharge - late provisional filing fee or	
Name	1053	130	1053		cover sheet Non-English specification	
The Director is authorized to: (check all that apply) Charge fee(s) indicated below Credit any overpayments		2,520	1812 2		or filing a request for ex parte reexamination	
Charge any additional fee(s) or any underpayment of fee(s)	1804	920*	1804		Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	1805	1,840*	1805 1	I,840* F	Requesting publication of SIR after Examiner action	
FEE CALCULATION	1251	110	2251		Extension for reply within first month	
1. BASIC FILING FEE	1252		2252		Extension for reply within second month	
Large Entity Small Entity	1253	950	2253	475 E	Extension for reply within third month	
Fee Fee Fee Fee Fee Paid Code (\$) Code (\$)	1254	1,480	2254		Extension for reply within fourth month	
1001 770 2001 385 Utility filing fee	1255	2,010	2255		Extension for reply within fifth month	
1002 340 2002 170 Design filing fee 770.00	1401	330	2401	165	Notice of Appeal	
1003 530 2003 265 Plant filing fee	1402	330	2402	165 F	Filing a brief in support of an appeal	
1004 770 2004 385 Reissue filing fee	1403	290	2403	145 F	Request for oral hearing	
1005 160 2005 80 Provisional filing fee	1451	1,510	1451	1,510 F	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 770.00	1452	110	2452	55 F	Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE		1,330	2453	665 F	Petition to revive - unintentional	
Fee from		1,330	2501		Utility issue fee (or reissue)	
Total Claims 7 -20** = X = 0	1502 1503		2502 2503		Design issue fee Plant issue fee	
Independent Claims	1460		1460		Petitions to the Commissioner	\vdash
Multiple Dependent	1807	50	1807		Processing fee under 37 CFR 1.17(q)	
Large Entity Small Entity	1806	180	1806		Submission of Information Disclosure Stmt	
Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021	40	8021	40 F	Recording each patent assignment per	40.00
1202 18 2202 9 Claims in excess of 20				P	property (times number of properties)	70.00
1201 86 2201 43 Independent claims in excess of 3	1809	770	2809	JOD F	Filing a submission after final rejection 37 CFR 1.129(a))	
1203 290 2203 145 Multiple dependent claim, if not paid	1810	` 770	2810		For each additional invention to be examined (37 CFR 1.129(b))	
1204 86 2204 43 ** Reissue independent claims over original patent	1801	770	2801		Request for Continued Examination (RCE)	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802	900	1802		Request for expedited examination of a design application	
SUBTOTAL (2) (\$)	Other fee (specify)					
**or number previously paid, if greater; For Reissues, see above *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40.00						0 1
SUBMITTED BY					(Complete (if applicable))	
Name (Print/Type) Kia Silverbrook C Registration No. Telephone 612 98186633						

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De Included on this form. Provide credit card information and authorization on P1U-2U36.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date

November 21, 2003



SILVERBROOK RESEARCH Pty Ltd

393 Darling Street Balmain NSW 2041 Australia PO Box 207 Balmain NSW 2041 Australia Phone: +61 2 9818 6633 Fax: +61 2 9555 7762 Email: info@silverbrookresearch.com ACN 066 573 671

December 4, 2003

Commissioner of Patents and Trademarks Washington DC 20231 USA

Dear Sir

53 New United States Patent Applications Assignee: Silverbrook Research Pty Ltd

This letter accompanies 53 new patent applications.

<u>53 bank drafts</u> for the total amount of US\$51,520 are enclosed to cover filing and assignment fees for each of the 53 applications. Also attached is a list giving details of each application.

We look forward to receiving filing receipts in due course.

If you need to contact us in relation to the applications, please email my assistant, Kia Silverbrook at Kia Silverbrook@silverbrookresearch.com or by fax to +61 2 9555 7762.

Yours faithfully

Kia Silverbrook

Silverbrook Research Pty Ltd

	DOCKET		INVENTORS	AMOUNT ∰	
	NO.		INVENTORS	COUS XXX	PARENT NO
1	ZE017	Printhead assembly incorporating one or more printhead modules	Kia Silverbrook, Tobin Allen King	850.00	ART108
2	ZE018	Printhead assembly incorporating a channel member	Kia Silverbrook, Tobin Allen King	850.00	ART108
3	ZE019	Printhead assembly incorporating an elastomeric feed member	Kia Silverbrook, Tobin Allen King		
4	ZE020	Printhead assembly incorporating micromoldings	Kia Silverbrook, Tobin Allen King		
5	BAL70	A camera for printing manipulated images	Kia Silverbrook, Paul Lapstun, Simon Robert	850.00	ART108
6	BAL71	A camera for pirnting on media provided on print roll	Walmsley Kia Silverbrook, Paul Lapstun, Simon Robert	998.00	ART51
7	BAL72	A camera for printing manipulated images on media	Walmslev Kia Silverbrook, Paul Lapstun, Simon Robert	1,142.00	ART51
8	 	A camera and controlling processing system	Walmsley Kia Silverbrook, Paul Lapstun, Simon Robert	1,070.00	ART51
			Walmslev	1,070.00	ART51
9	22000	A method of fabricating a fluid ejection device using a planarizing step	Kia Silverbrook	810.00	IJ46 Div. 2
10		A micro-electromechanical fluid ejection device with control logic circuitry	Kia Silverbrook	810.00	IJ46 Div. 2
11		A printhead configuration incorporating a nozzle arrangement layout	Kia Silverbrook	810.00	IJ46 Div. 2
12	ZE012	A method of fabricating a micro-electromechanical device having a laminated actuator	Kia Silverbrook	810.00	IJ46 Div. 2
13	ZF189	An image capture and processing device for a print on demand digital camera system	Kia Silverbrook		
14		A printhead assembly for a print on demand digital camera system	Kia Silverbrook	810.00	IR18
15	ZF191	A printhead re-capping assembly for a print on demand digital camera system	Kia Silverbrook	810.00	IR18
16			Kia Silverbrook	810.00	IR18
17	МТВ07	Ink jet printhead with amorphous ceramic chamber	Kia Silverbrook	1,044.00	MJ40
18	ZF132	Composite support beam for pirnthead assembly	Kia Silverbrook	1,116.00	MJ40
19	ZF133	Thermal expansion relief for printhead assembly	Kia Silverbrook	810.00	MJ44
20		Thermal expansion compensation for printhead	Kia Silverbrook	810.00	MJ44
21	ZE013 /	A micro-electromechanical fluid ejection device having a chamber that is volumetrically altered for fluid ejection		810.00	MJ44
22	ZE014	A micro-electromechanical fluid ejection device having	Kia Silverbrook	810.00	MJ95
23	MTB01	Thermal ink jet printhead with short heater to nozzle		810.00	MJ95
	a	aperture distance	Kia Silverbrook	1,422.00	MJT001
24	- fo	ior ricaters	Kia Silverbrook	1,422.00	MJT001
25		Thermal ink jet printhead with heater elements supported by electrodes	Kia Silverbrook	1,422.00	MJT001

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MTB02	Very high efficiency thermal ink jet printhead			
<u> </u>		McAyov	1,502.00	MJT001
мтвоз	Low voltage thermal ink jet printhead	Kia Silverbrook	1,422.00	MJT001
MTB04	Inkjet printhead with low mass displacement nozzle	Kia Silverbrook	1,422,00	MJT001
МТВ06	Thermal ink jet printhead with bubble collapse point close to nozzle aperture	Kia Silverbrook	1,422.00	MJT001
MTB14	Heat dissipation within thermal ink jet printhead	Kia Silverbrook	1,422.00	MJT001
ZF184	Ink Distribution assembly	Kia Silverbrook	810.00	PAK12
ZG185	Printhead chassis assembly	Kia Silverbrook	810.00	PAK12
ZG186	Laminated distribution structure	Kia Silverbrook	810.00	PAK12
ZG112	Chips with wafer scale caps formed by molding	Kia Silverbrook	810.00	WSM01
ZG113	Two part mold for wafer scale caps	Kia Silverbrook	810.00	WSM01
ZG114	Wafer scale caps located by molding	Kia Silverbrook	810.00	WSM01
ZG115	Molded wafer scale cap array	Kia Silverbrook	810.00	WSM01
ZG116	Placement tool for wafer scale caps	Kia Silverbrook	810.00	WSM01
ZG117	Mold making method for wafer scale caps	Kia Silverbrook	810.00	WSM01
ZG118	Chip with molded cap array	Kia Silverbrook	810.00	WSM01
ZG119	Molded wafer scale cap	Kia Silverbrook	810.00	WSM01
ZF117	Thermoelastic inkjet actuator with heat conductive pathways	Kia Silverbrook, Gregory John McAvoy	850.00	YU185
ZE005	An ink jet printhead chip having an actuator mechanisms located about ejection ports	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
ZE006	A method of fabricating an ink jet printhead chip having actuator mechanisms located about ejection ports	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
ZE007	A micro-electromechanical fluid ejection device having actuator mechanisms located about ejection ports	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
ZE008	A micro-electromechanical fluid ejection device having nozzle chambers with diverging walls	Kia Silverbrook, Gregory John McAvoy	850.00	YU195
		Kia Silverbrook	850.00	ZF107
		Kia Silverbrook	850.00	ZF107
ZG189	Page binder with two part adhesive applicator	Kia Silverbrook	850.00	ZF107
		Kia Silverbrook	1,170.00	ZF121
	MTB03 MTB04 MTB06 MTB14 ZF184 ZG185 ZG186 ZG112 ZG113 ZG114 ZG115 ZG116 ZG117 ZG118 ZG119 ZF117 ZE005 ZE006 ZE007 ZE008 ZG187 ZG188 ZG189 MTB08	MTB03 Low voltage thermal ink jet printhead MTB04 Inkjet printhead with low mass displacement nozzle MTB06 Thermal ink jet printhead with bubble collapse point close to nozzle aperture MTB14 Heat dissipation within thermal ink jet printhead ZF184 Ink Distribution assembly ZG185 Printhead chassis assembly ZG186 Laminated distribution structure ZG112 Chips with wafer scale caps formed by molding ZG113 Two part mold for wafer scale caps ZG114 Wafer scale caps located by molding ZG115 Molded wafer scale cap array ZG116 Placement tool for wafer scale caps ZG117 Mold making method for wafer scale caps ZG118 Chip with molded cap array ZG119 Molded wafer scale cap ZF117 Thermoelastic inkjet actuator with heat conductive pathways ZE005 An ink jet printhead chip having an actuator mechanisms located about ejection ports ZE006 A method of fabricating an ink jet printhead chip having actuator mechanisms located about ejection ports ZE007 A micro-electromechanical fluid ejection device having actuator mechanisms located about ejection ports ZE008 A micro-electromechanical fluid ejection device having an actuator mechanisms located about ejection ports ZE008 A micro-electromechanical fluid ejection device having an actuator mechanisms located about ejection ports ZE008 Page binder with air cushion and non-contact adhesive applicator ZG188 Page binder with two part adhesive applicator	MTB03 Low voltage thermal ink jet printhead MTB04 Inkjet printhead with low mass displacement nozzle MTB06 Thermal ink jet printhead with bubble collapse point close to nozzle aperture MTB07 Thermal ink jet printhead with bubble collapse point close to nozzle aperture MTB08 Thermal ink jet printhead with bubble collapse point close to nozzle aperture MTB09 Kia Silverbrook Kia Silverbrook, Gregory John McAvoy	MTB02 Very high efficiency thermal ink jet printhead

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51	МТВ09	Inkjet printhead with non-uniform width ink supply passage to nozzle	Kia Silverbrook	1,112.00	ZF121
52	MTB10	Inkjet printhead with ink chamber inlet etched into wafer	Kia Silverbrook	1,256.00	ZF121
53	MTB11	Inkjet printhead with ink supply passage formed from both sides of the wafer by overlapping etches	Kia Silverbrook	1,256.00	ZF121
56					
57				51,520.00	

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